

# BACKYARD RAIN GARDEN

## RAIN GARDEN SITE REQUIREMENTS

1. DISTANCE TO BUILDING FOUNDATION: \_\_\_\_\_ (10 FEET MINIMUM)
2. DISTANCE TO SEPTIC SYSTEM DRAINFIELD: \_\_\_\_\_ (25 FEET MINIMUM)
3. DISTANCE TO WELL HEAD: \_\_\_\_\_ (25 FEET MINIMUM)
4. UPSLOPE    DOWNSLOPE    FROM WELL HEAD (CIRCLE ONE, DOWNSLOPE RECOMMENDED)
5. UPSLOPE    DOWNSLOPE    LATERAL    TO SEPTIC DRAINFIELD (CIRCLE ONE, LATERAL RECOMMENDED)
6. SUN EXPOSURE IS    FULL    PARTIAL    (CIRCLE ONE)
7. DEPTH TO SEASONAL HIGH WATER TABLE: \_\_\_\_\_ (>30 INCHES RECOMMENDED)

## SOIL DATA

1. PREDOMINANT SOIL TYPE: \_\_\_\_\_ (FROM SOIL SURVEY)
2. POST RAINFALL CONDITION OF PROPOSED RAIN GARDEN LOCATION ACCORDING TO LANDOWNER:  
WET OR SATURATED 1.5 DAYS AFTER RAINFALL? \_\_\_\_\_ IF YES, SELECT ALTERNATE SITE.
3. DEPTH TO WETLAND SOILS IN 24-INCH DEPTH TEST PIT: \_\_\_\_\_ INCHES  
IF WETLAND SOILS (GREY WITH RIBBONS OF BROWN) ARE OBSERVED WITHIN 12 INCHES OF SURFACE, SITE IS UNSUITABLE FOR RAIN GARDEN.
4. IS WATER PRESENT IN TEST PIT, 2 DAYS AFTER COMPLETE FILLING WITH WATER?    YES    NO    (CIRCLE ONE)

ANY WATER PRESENT WITHOUT ADDITIONAL RAINFALL INDICATES POORLY DRAINED SITE. IF PIT DRAINS COMPLETELY, REFILL AND CHECK AFTER 12 HOURS. A COMPLETELY DRAINED PIT CHARACTERIZES A WELL DRAINED SITE.

## RUNOFF VOLUME

TOTAL WATERSHED AREA (A) = \_\_\_\_\_ SQUARE FEET

AREA OF IMPERVIOUS SURFACES (Ai) = \_\_\_\_\_ SQUARE FEET

IMPERVIOUS PERCENTAGE OF WATERSHED (I) = (Ai/A)\*100= \_\_\_\_\_

RUNOFF COEFFICIENT (Rv) = 0.05 + (0.009 \*I) = \_\_\_\_\_

STORM PRECIPITATION (P): \_\_\_\_\_ (1.5 INCHES FOR CAMA COUNTIES, 1.0 INCH FOR ALL OTHERS)

RUNOFF VOLUME (V) = Rv \* A \* (P/12) = \_\_\_\_\_ CUBIC FEET\*\*

\*\* REFER TO **APPENDIX D** OF CCAP STORMWATER BMP DESIGN MANUAL FOR RAIN GARDEN SIZING CHARTS.

SITE MAP

SCALE: \_\_\_\_\_

NORTH CAROLINA  
SOIL&WATER  
CONSERVATION

FIELD OFFICE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
PHONE: \_\_\_\_\_

LANDOWNER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

REVISIONS			DESCRIPTION
NO.	BY	DATE	
1			
2			
3			
4			
5			

PROJECT #:

SCALE:

DRAWN BY:

DATE:

CHECKED BY:

DATE:

SHEET NO. 1 OF 3

FILENAME: RAINGARDEN.DWG